PVA Risk Assessment Worksheet: MSO Tampa Commercial Parasail Vessel "Developmental Team"

STEP #1	Company Name:	Commercial Parasail Vessels- Western Florida, MSO Tampa AOR
	Vessel (s) Name:	Parasail Vessel Safety Developmental Team
		Parasail Ride (from time chute is inflated, riders airborne, to deflated)
	Assessed:	

STEP #2	Participant Name:	Function/ Title/ Organization
	Mark Bahr	Marco Island Ski & Watersports Inc., Pres; PS Manufacturer
	Ron Hagerman	Marco Island Ski & Watersportrs Inc., VP/GM; PSOperator
	Chris Abbott	Custom Chutes Inc., Pres; PS Manufacturer
	Jesse Pariseau	Premium Boat Co., GM; PS Manufacturer
	Kiven Hopper	Parasail City; Pres; PS Operator
	Matt Murphy	Cortez Parasail; Capt; PS Operator
	Allen Fawe	Cortez Parasail; GM/ Capt; PS Operator
	Daryl Konecy	Fun & Sun Parasail; Owner/ Pres; PS Operator
	Darius Bors	USCG, MSD West Palm Beach; Marine Inspector/ IO
	J.M. Shea	USCG Aux, MSO Tampa, IO
	J. Lilburn	USCG Aux, MSO Tampa, IO
	Scott Muller	USCG, MSO Tampa, SIO

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<u>STEP #3</u>	STEP #4		STEP #5		STEP #6
Hazard Description	Frequency		Impact		Relative Risk
	Rating		Rating		Score
1. Towline Separation (throughout entire parasail system)	4	+	5	=	9
a. Knot braking		+		=	
b. Line braking		+		=	
c. Line Failure at the winch		+		=	
• (shock loading a line- occurs during: poor response to free		+		=	
spooling, during retrieving and launching (short line distance))					
 Problems with line; damage, poor condition, old) 					
 Drag on line increases with greater length…) 					
 Line Degrades from salt-water intrusion 					
		+		=	
2. Passenger Dipping:	2	+	3	=	5
a. Other factors; boat traffic		+		=	
b. Riders make contact with each other during dip		+		=	
c. There are advantages to pass dipping Operator can judge wind speed		+		=	
and other factors for boat landing					
		+		=	
3. Mechanical Failures	4	+	5	=	9
a. systems on board, vsl, engines, drive, winches		+		=	
		+		=	
4. Operations in Un-Sat Wx and Sea conditions, Location, etc.	3	+	5	=	8
(operating when they should not- why stay open?)					
		+		=	
5. Collisions; proximity of vsls, near misses etc.	2	+	5	=	7
6. Parasail Equipment Failure; but not towline	1	+	5		6

FREQUENCY RATING

1	Remote = Might occur once in a lifetime.
2	Occasional = Might occur every five years.
3	Likely = Might occur every season or year.
4	Probable = Might occur monthly.
5	Frequent = Might occur daily or weekly.

IMPACT RATING

1	Negligible = Injury w/ no first aid, no cosmetic vsl damage
2	Minor = Injury req first aid, cosmetic vsl damage
3	Significant = Injury req more than first aid, vsl damage
4	Critical = Severe Injury, major vsl damage
5	Catastrophic = Loss of life, loss of Vsl

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Focus Hazards (top 3 from Step #6)	STEP #7: Countermeasures (All Inclusive for Focus Hazards)	STEP #8: Estimate of Effectiven	ess	STEP #9: Cost Estimates		STEP #10: Overall Score
A. Towline Separation (throughout entire parasail system)	1. Mandatory installment of the latest (newest generation of winch systems), that being a wing system with a hydraulic brake.		÷	2		1
B. Mechanical Failures	 Length of Line: Flight Height Standards; Maximum altitude of 500 feet above water or not to exceed a towline angle of 41 degree (average), or as required by FAA regs. Max of 900 feet of line allowed on towline 	ees	÷	1		2
C. Operations in Un-Sat Wx and Sea conditions	 3. Towline Standards; Strength of Line Min Tensile Strength: (4,800 lbs) Max Tensile Strength: (10,000 lbs) 	2	÷	1		2
	 4. Distance off-shore, off-any object; Operation Parameters 3 x's Line length from any structure At no times shall a parasail vessel's operate allow a canopy to pass within the following distances from the shore while an onshore spresent: Wind Speed Dist. Off Shore (MPH) (Ft) 0-5 600 5-10 1,000 11-15 3 x's towline length 16-20 4 x's towline length 	or Swind is	÷	1	=	3
	5. Towline/ Winch Spool Connection:Must be attached via some knot.	3	÷	1	=	3

• Evidence of	uidance for Industry (items to look for) of Fray's, flat spots, etc. be changed at least once per-year	3	÷	2	=	1.5
	nust be kept clean and dry.					
7. Towline RMust have condition.	oller Systems: one with fairlead's, good working a line-leveler system	3	÷	2	=	1.5
8. End of line • A minimum	e (Towline/ Yoke) Attachment m of 12" shall be trimmed from the itter end every 7 days.	3	÷	2	=	1.5
indicate last 5	of line closest to the tow winch spool to 0 and 100 feet. This will help warn the he line is almost completely paid out	2	÷	1	=	2
• Daily Wea • Equipmen • Da que equ rep • Ma acc (op	nal Logbooks that capture: ather (AM and PM notations?) It Maintenance: (P/S and Vsl) ily Equipment Checks, if damaged or estionable conditions are noted, the uipment shall be taken to a qualified pair facility. Aintenance of P/S and Vsl shall be in cordance with the Manufactures Manual perator must have manuals readily ailable) Orills	2	•	1		2
11. OperationRecovery water.Drills to be	nal Procedures A (Written): of persons and parasail riders from the e conducted an-overboard	1	÷	2		.5

 Loss of engine or winch power Line Partings High Wind Situations Note: we must create the right standards operators must follow. Passenger/ rider briefs prior to flights. Operational Area and Procedures Identification: (Written Company Policies) Distance off-shore or from objects Max ride heights Line Length Wx and Sea conditions w/ 4 foot seas max. (PAPO): No vsl shall be operated in the following conditions: Wind is excess of 20 mph sustained. Wind gust exceed the sustained wind by more than 5 mph. When vsl is not capable of making forward way with forward winch engagement and passenger in tow. When the passenger(s) in tow will not begin to sufficiently descend when forward way has been paused. 	3	•	2	=	1.5
 Training Programs: Deckhands shall be cross trained to at least be able to take over for the captain in an emergency to call for help, or maneuver the vessel to a safe location and to terminate the flight safely. OJT: Competency Testing/ exam, (PAPO) Written Training Program: (PAPO) 	3	•	3	=	1

Must create standards to give operators guidance.					
14. Vsls must have a VHF Radio	1	÷	1		1
15. Operators must be able to assess weather conditions via any available means: TV, Internet, radios, etc	3	÷	1		3
 16. Stowage of P/S Equipment: Equip stowed in proper container, or hung in locker on the dock, all gear must not be stowed in Engine compartment. 	1	•	1	=	1

Estimate of Effectiveness

1	Low = No reduction in the relative risk score.
2	Medium = Reduction of the relative risk score by
	one or two points.
3	High = Reduction of relative risk score in excess of
	two points.

Cost Estimate

1	Low = Low or no cost
2	Medium = Approximately equal to the revenue
	received on a good day.
3	High = Greater than the revenue received during
	a week or more of operation.

STEP #10 (Continued): Choose the countermeasures with the highest Overall Score.

<u>Countermeasure</u>	Overall Score
Distance off-shore, off-any object; Operational Parameters	3
Towline/ Winch Spool Connection:	3
Operators must be able to assess weather conditions via any available means: TV, Internet, radios, etc	3
Length of Line: Flight Height Standards;	2
Towline Standards; Strength of Line	2
Mark end of line closest to the tow winch spool to indicate last 50 and 100 feet.	2
Operational Logbooks	2